

Figure 1-1: Tensile Strength vs. Exposure Time

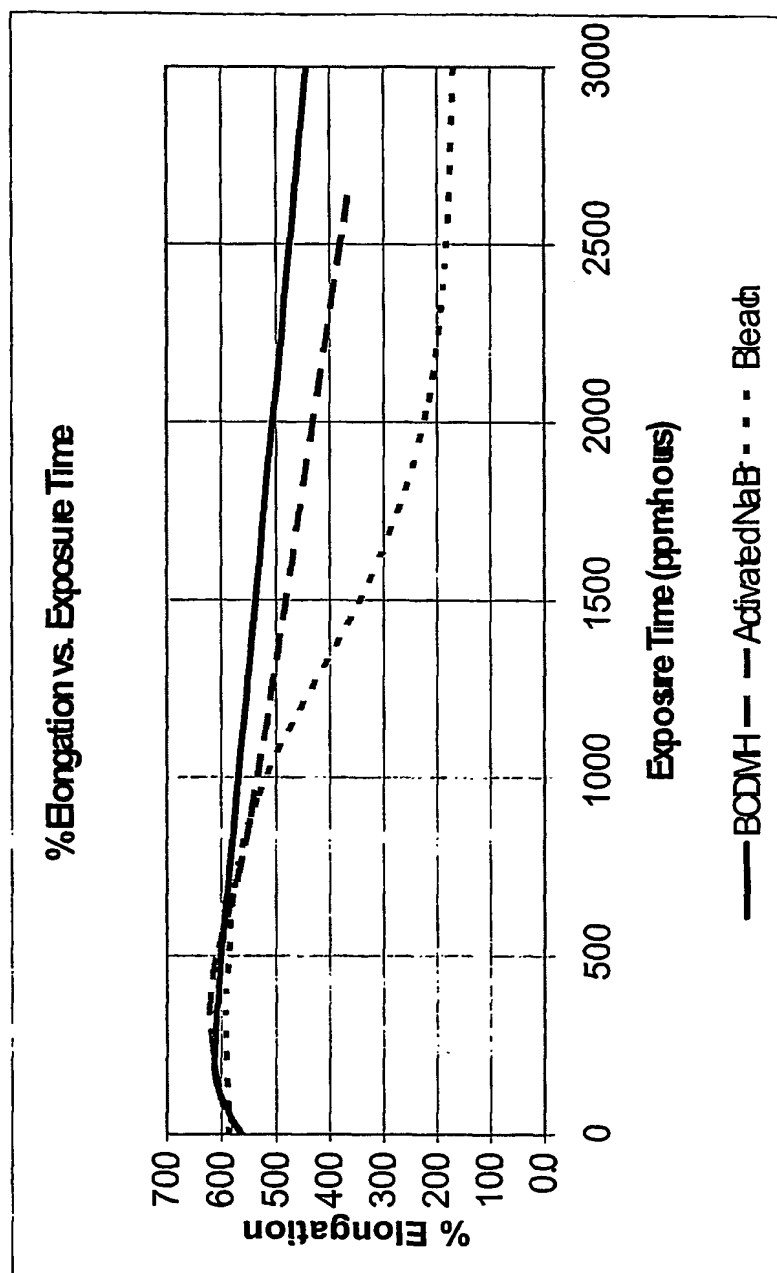


Figure 1-2: % Elongation vs. Exposure Time

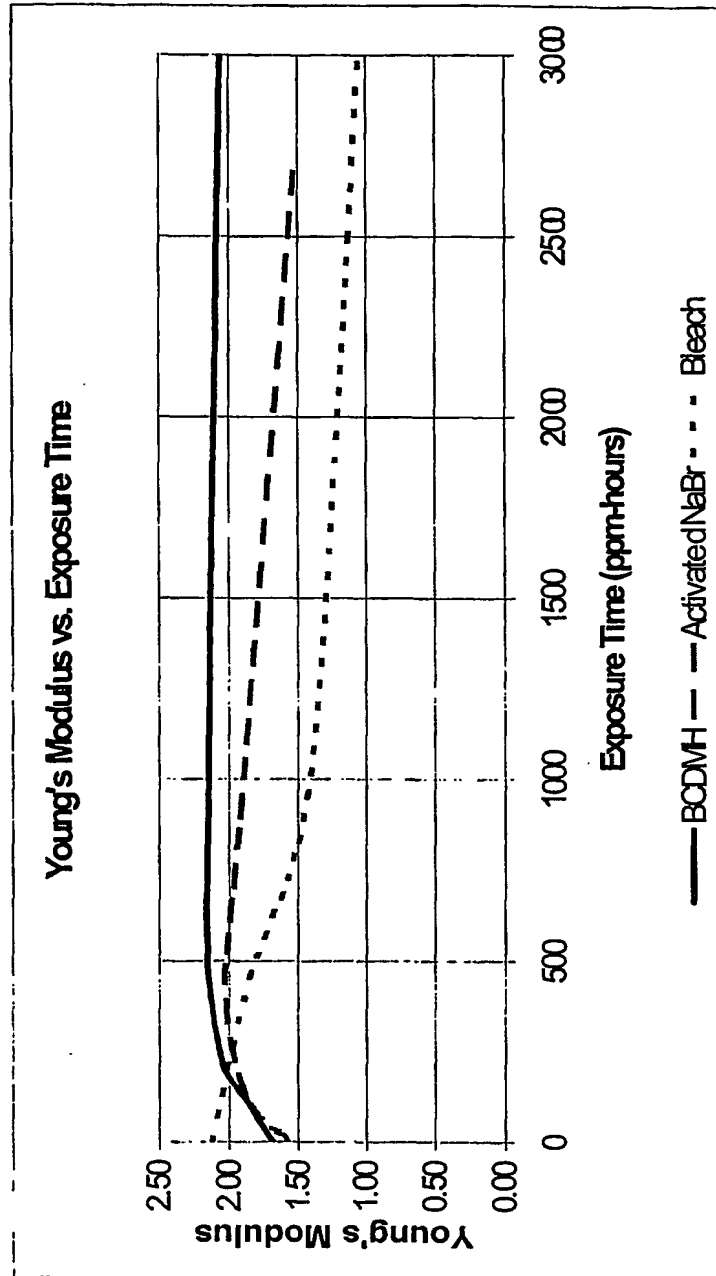
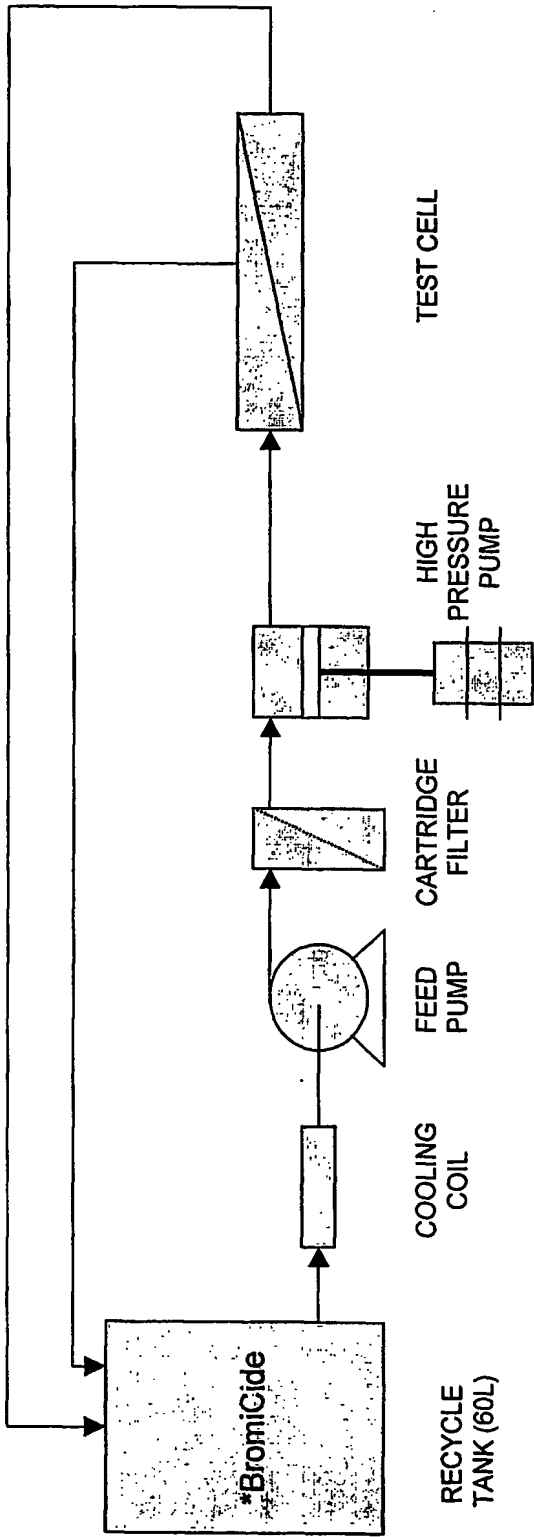


Figure 1-3: Young's Modulus vs. Exposure Time

# Flat Plate Test Cell



\*BromiCide injection point was directly into recycle tank.

Figure 2-1

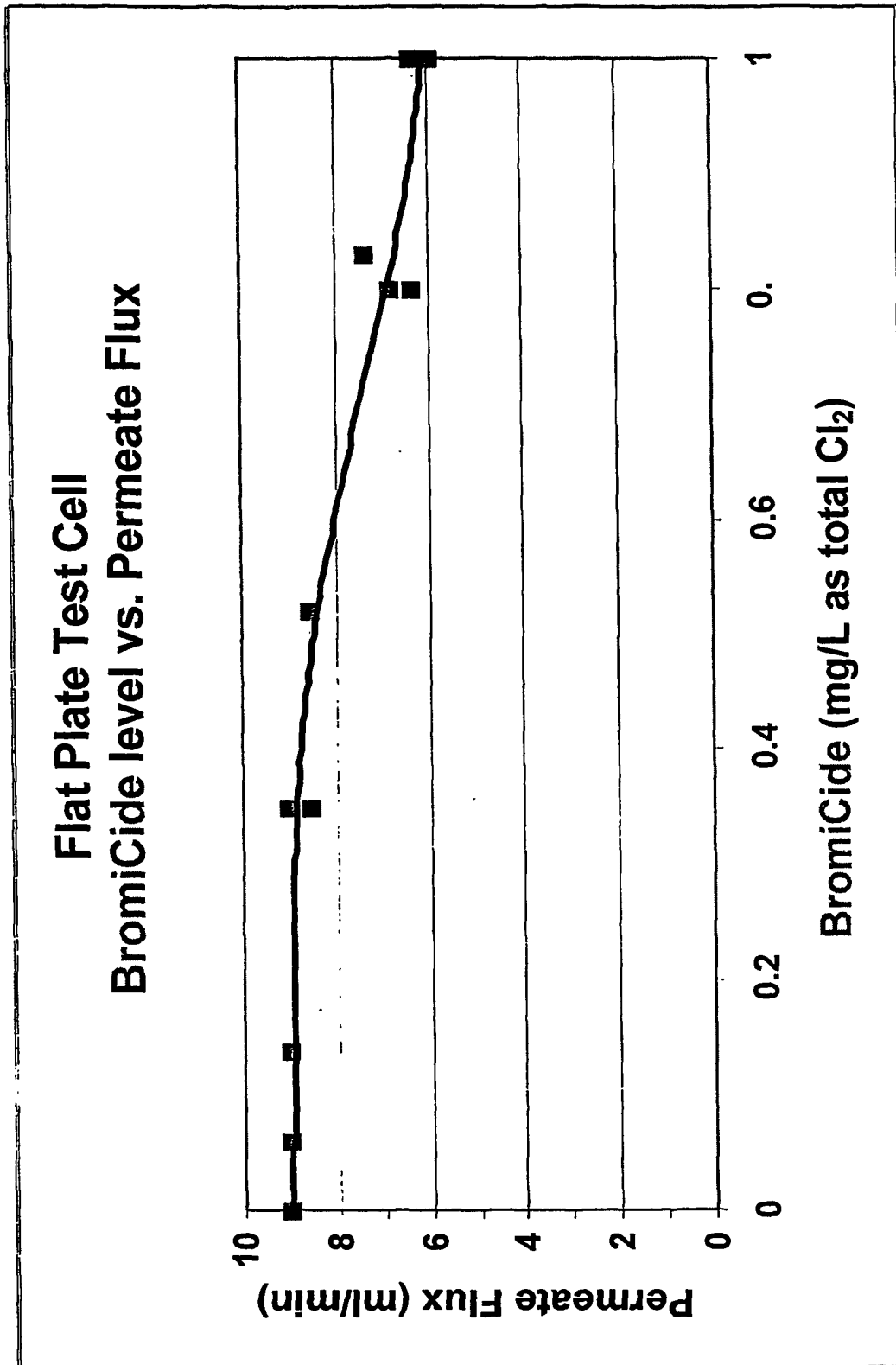
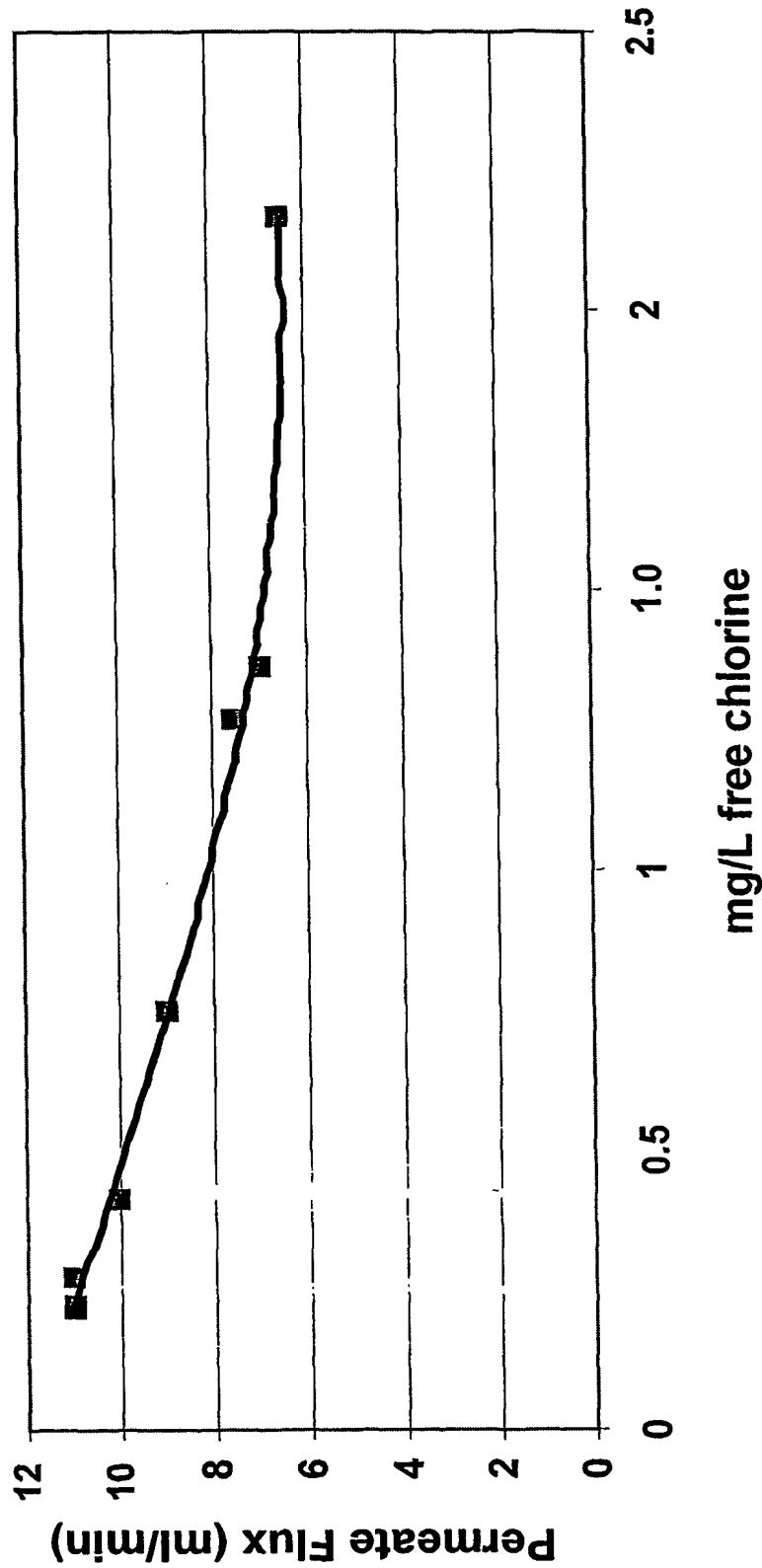


Figure 2-2

### Flat Plate Test Cell Sodium Hypochlorite level vs. Permeate Flux

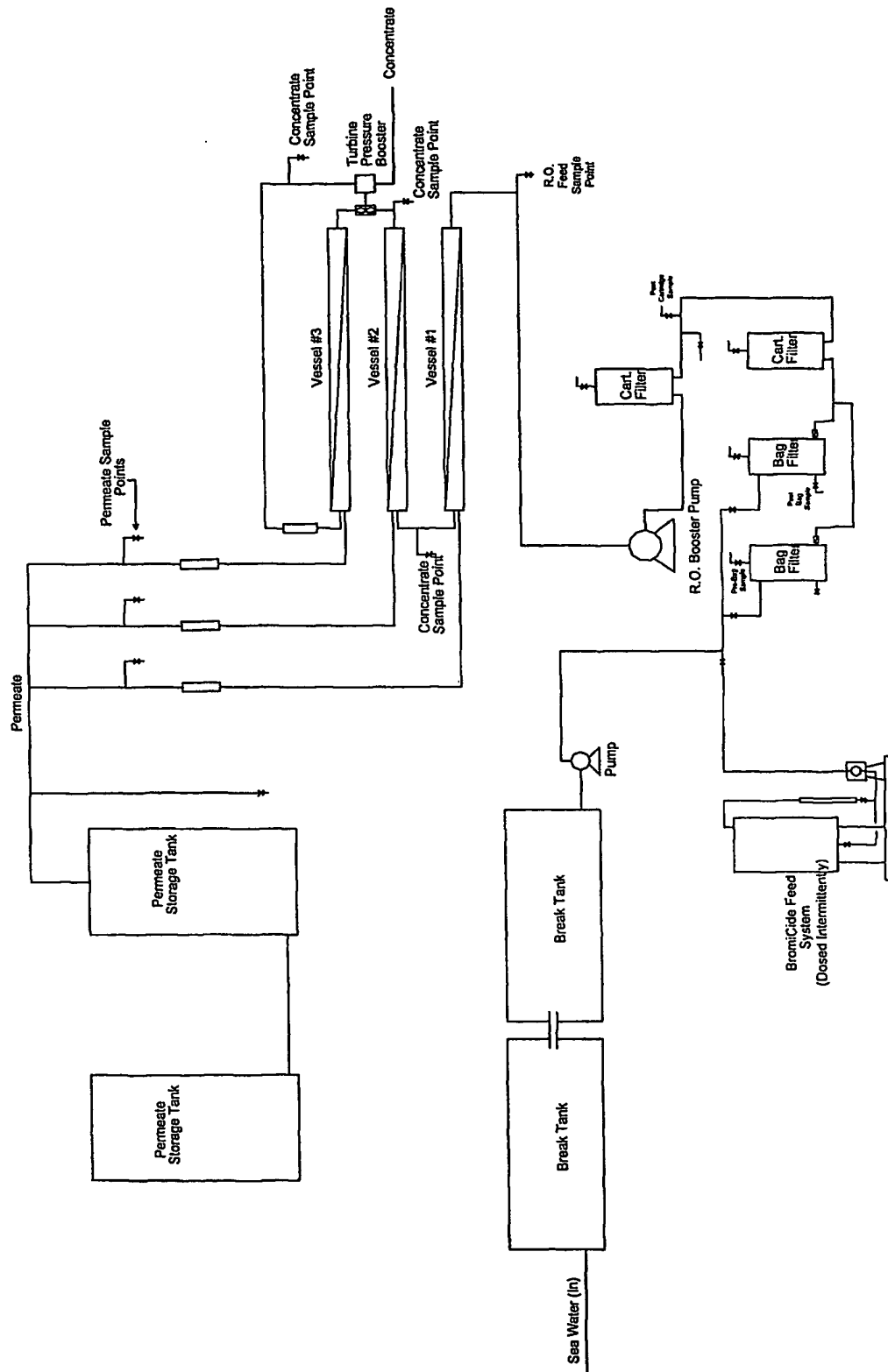


Note: There was an immediate loss in permeate flux when feeding Sodium Hypochlorite.

Figure 2-3

Figure 3-1

## St. Croix R.O. system flow schematic



# Normalized Permeate Flow Rate (BCDMH dosed 4hrs./day)

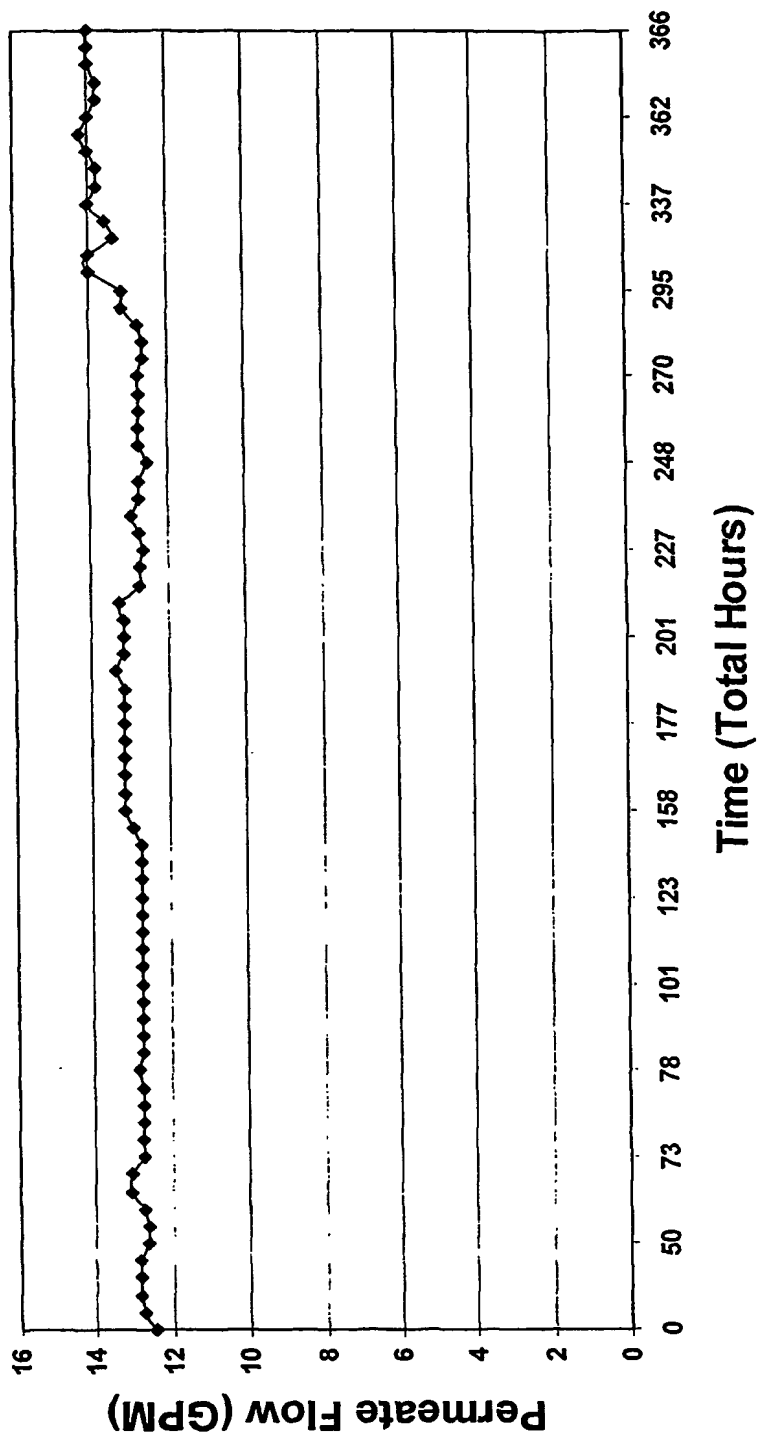


Figure 3-2



# Normalized Salt Rejection(%) (BCDMH dosed 4hrs./day)

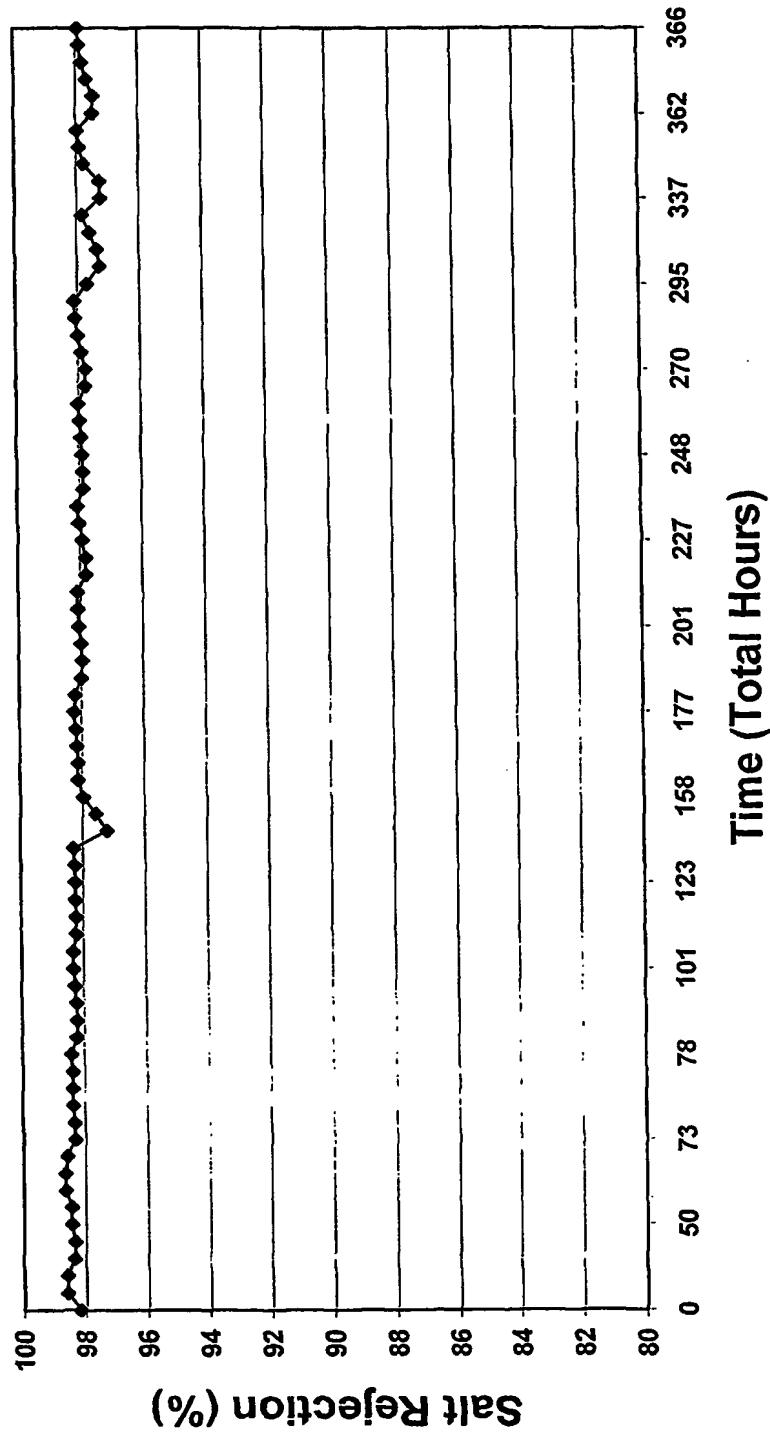


Figure 3-3

# RO pilot plant

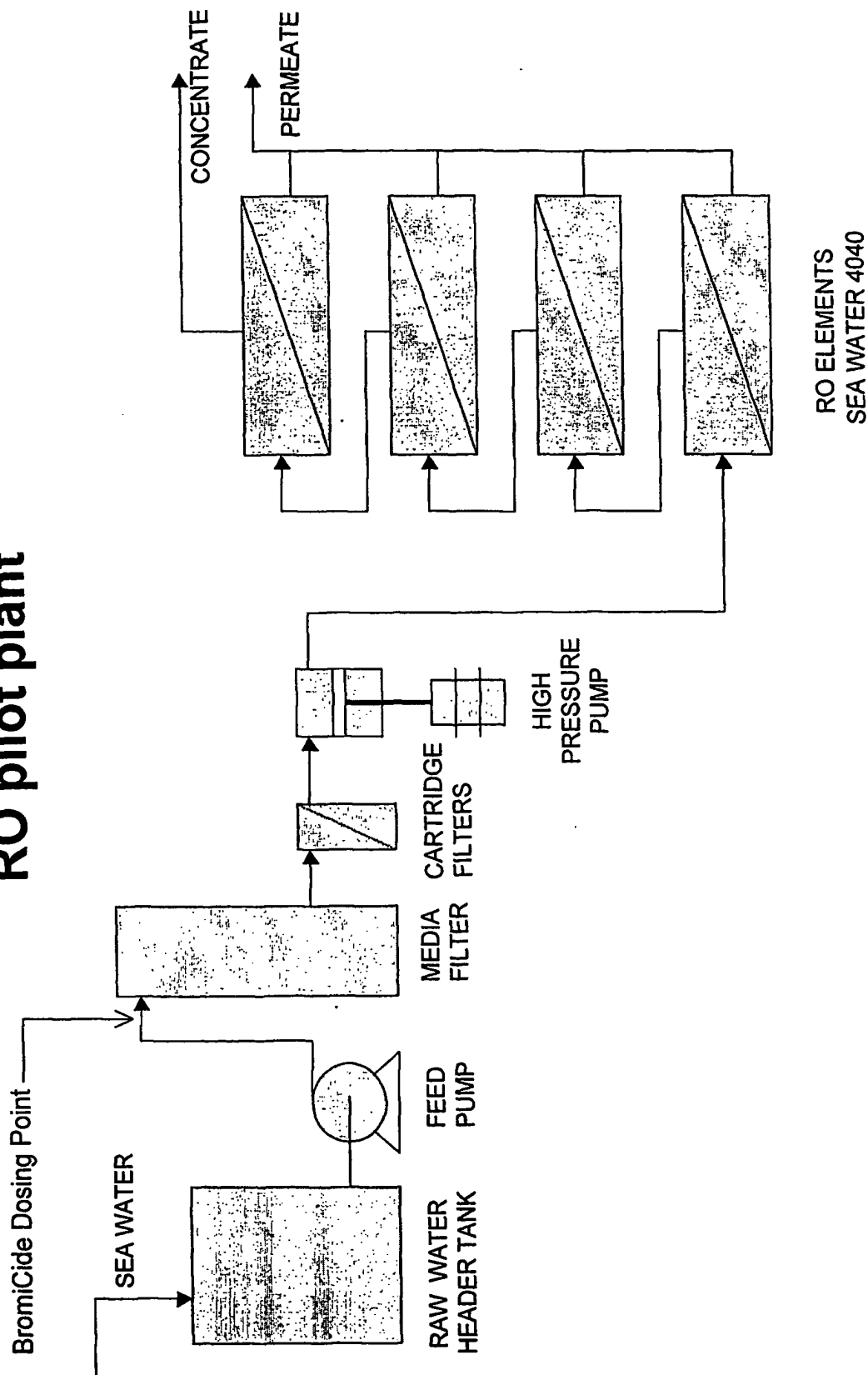
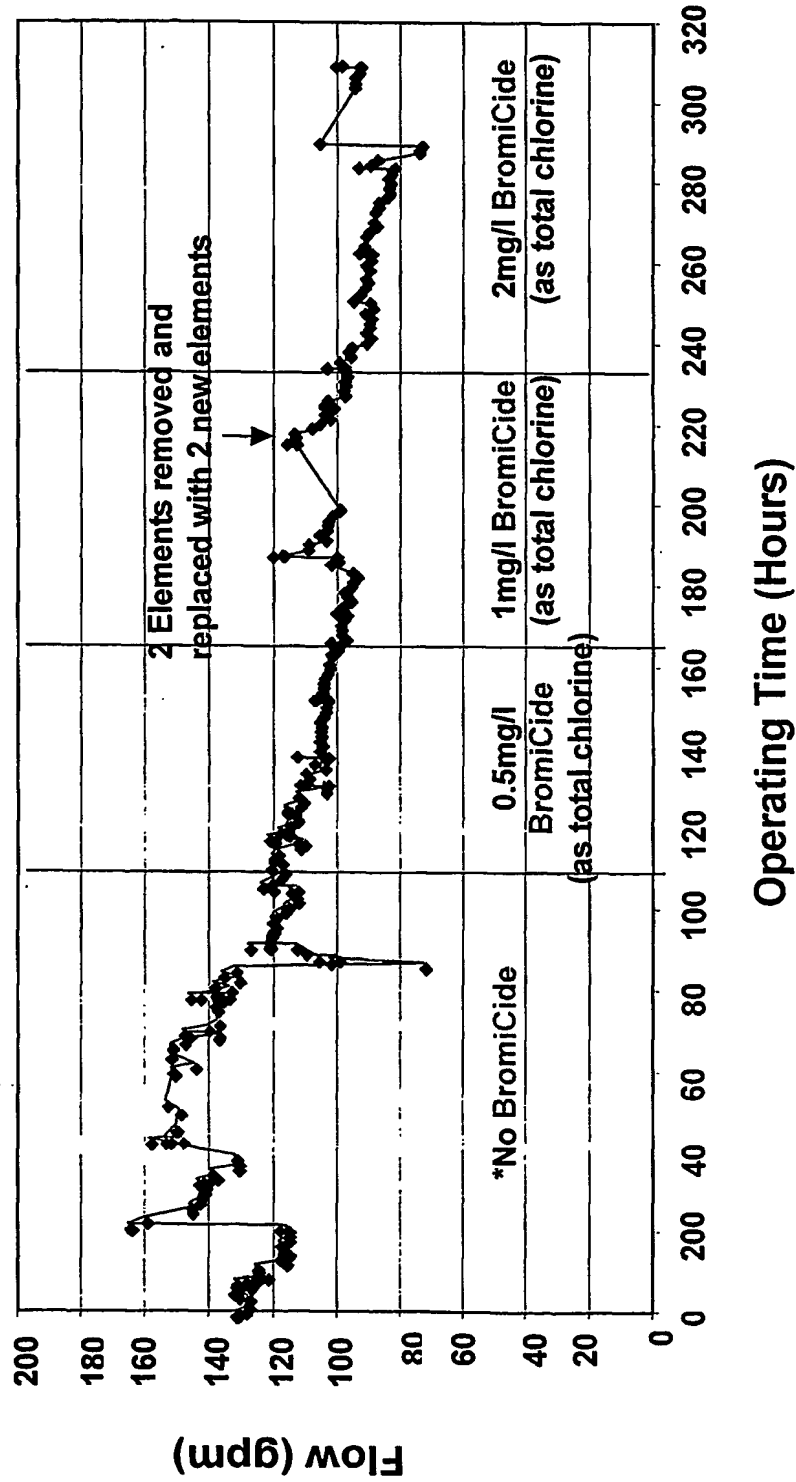


Figure 4-1

# RO/BromiCide pilot plant test - Amlwch Anglesey

## Normalized Permeate Flow (Hydraulics Membranes)



Note: Initial decline in normalized permeate flow rate was observed due to silt fouling prior to the introduction of BromiCide into the feed.

Figure 4-2

**RO/BromiCide pilot plant test - Amlwch Anglesey**  
**Normalized Salt Rejection**  
**(Hydranautics Elements)**

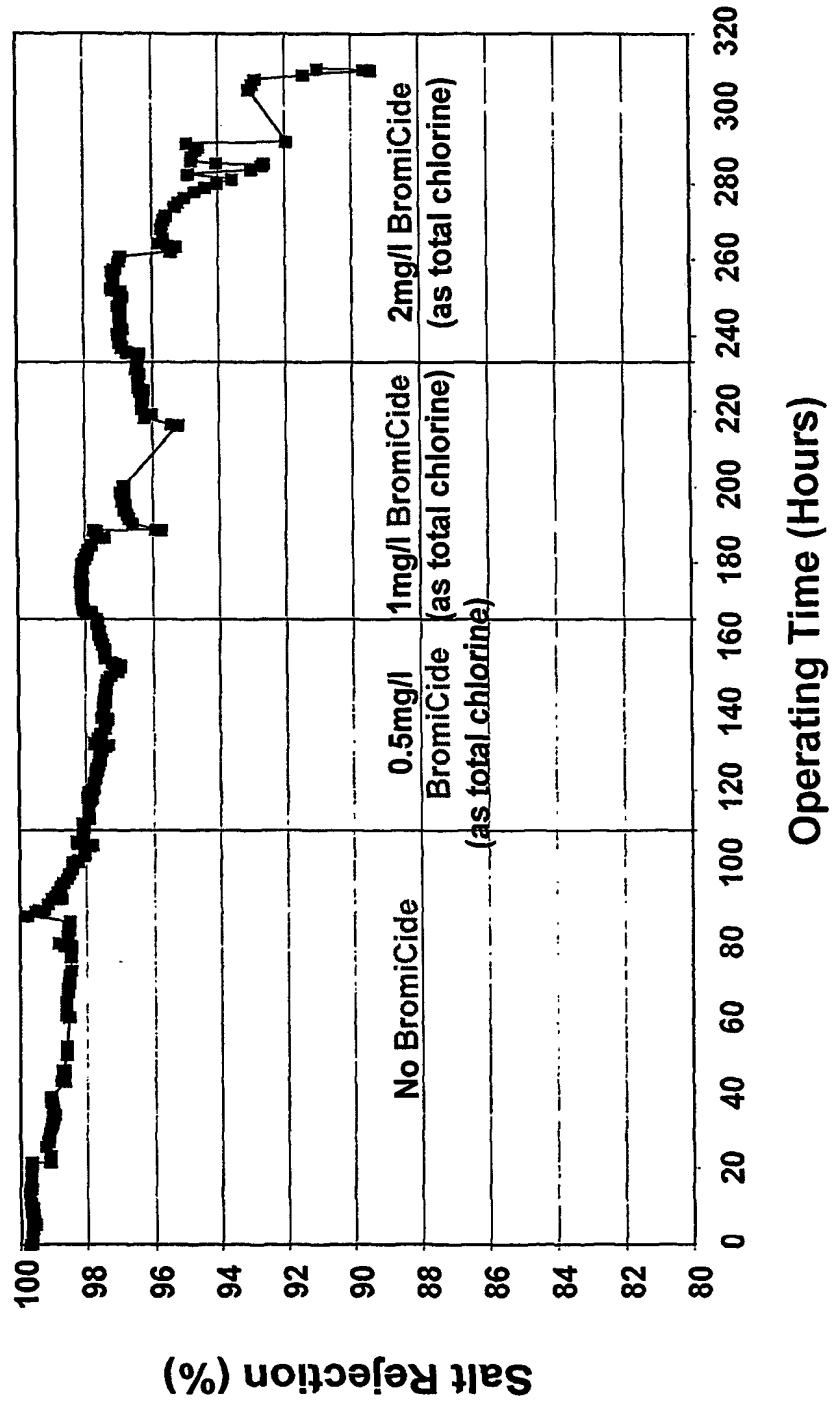


Figure 4-3

Table I: Cross Sectional Areas of Fibers

Cross Sectional Areas of Differing Fibers				
Sample	Cross Sectional Area ( $\mu^2 \times 10^3$ )			
Number	BCDMH	Activated NaBr	Bleach	
Blank	1.19	1.19	1.19	
1	1.23	1.12	1.11	
2	1.19	1.14	1.15	
3	1.09	1.11	1.22	
4	1.09	1.10	1.21	